All COR ISO Recommendations

Latent Condition, Seismic and ISS

Friday, October 12, 2012 11:39:29 AM

Type	Rec #	ABU	Unit	Year (I/R)	LC or ISS Question #	LC Question ISS Question Seismic Area	Observation	Recommendation	Resolution	Due Date	Assigned To	Status
Latent Condition	685	D&R	DHT	2011	3-50	Does the level of automation allow sufficient operator involvement so operators do not feel detached from the process, particularly during emergency situations where they must assume manual control?	Personnel rely on automation. Simulation is being developed for training to ensure personnel involvement and understanding.	Consider adding simulator training as part of standard training process. Particularly with the emergency procedures. Work with trainers to conduct HO/PCO traininng to enable on crew training, an additon Exapilot Tech will set training schedule to train PCO's on 4CU shutdown and star up procedures.	Simulator training was added for start up and shutdopwn of the crude unit all PCO's were trained and given time to work on the simulator. Exapilot training was also given and a Control person was on site to work with operators on the exa pilot program for start up and shutdown	2/8/2012	Curry, David P.	Completed
Latent Condition	686	D&R	DHT	2011	4-66	Is the control room lighting adequate [review direct and indirect lighting]?	There are issues with glare on screens. Dimmer switches were added, but to reduce the glare, the lighting is turned down.	Consider adding indirect lighting as was requested during the Honeywell project.	The lights have dimmer switches currently and each crew can adjust. We are looking at different type of lighting - Non Glare - It's a project headed by Tech OA Currently the operators have the means to control the lights and glare and adjust to fit the crew needs.	2/8/2012	Curry, David P.	Completed
Seismic	638	D&R	DHT	2011		R-1610 Service Structure	Buckled brace in lowest story east side and top story north side (pics 1 & 2)	Perform structural engineering evaluation of service structure due to mid-1970s construction and slenderness of WT brace in first story.	7/11 contact Chev technical rep to determine how to resouce. Generate wo for charging time and material. Ops to track until completion. Work oredr written. 8/18 DED assigned (Geln E.) 1st draft EWO recycled for revisions. 1/26/12 - EWO has been issued material is on order waiting to hear ETA for zone maint to schedule.The fireproofing was removed and the gusset plates welds were inspected. The welds & gusset plates were approved by the civil engineer, so the new cross-member can now be cut and bolted into place (I believe that this step is to happen today). Once this is complete, we can sign-off the PHA action item. 2/7/12 - Installation of replacement brace is completed.	2/8/2012	Preciado, Silvano E.	Completed

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Seismic	639	D&R	DHT	2011		E-1650-1 west unit	Missing anchor bolt on spring support, west column line (pic 3)	Replace missing anchor bolt	Ops will generate maint wo (see wo # below) to replace missing bolt on spring support. 8/18 maint requwsted guidance from DED, Glen will provide support. Status 11/30/11 Mark Crow (MXEW): Al Greene inspected the equipment and replied via e-mail that no additional work is necessary: 'The subject item may remain as is and need not have the missing anchor bolt replaced. The spring can which supports the pipe still has three bolts in place. The pipe is braced in both horizontal directions making it unlikely that the spring can would be able to transmit enough lateral force to shear one of the remaining bolts. Al Greene's email can be found at O:\Psm\Mod-only\PHAfiles\PHA-COR ISO Recommendation Supporting Documents\COR ISO Database\Seismic\639	2/8/2012	Preciado, Silvano E.	Completed

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Seismic	640	D&R	DHT	2011		E-1611B	Missing anchor bolts at roller feet (pic 4)	Perform structural engineerng evaluation for anchor bolt needed	This item completed based on technical review described below. Comments from civil: For #640, you may close out this item. Seismic lateral loads can be adequately resisted by the tube support frame on the west end and the rolling saddle shell support on the east end. The rolling saddle support between those two will offer some resistance although impaired due to missing three of four bolts on one leg and two of four on the other. Comments from DED: It is my understanding that the anchors that the bolts are missing from are in bad condition so the bolts cannot be replaced. It is also my understanding that the bolts are not needed and do not need to be replaced per the Civil Engineering calculations. Comments from civil: Your summary is correct Kurt. Of the five missing bolts in the westerly saddle support, three look cut off, one is below the sill angle half engaged in a hex nut, and one coupling nut is too corroded to accept a stud.	2/8/2012	Preciado, Silvano E.	Completed
Seismic	641	D&R	DHT	2011		P-1612A	Missing anchor bolt nut (pic 5)	Place nut on anchor bolt. Maintenance Rep said Maintenance will install nut on bolt.	Operations will generate maint wo to replace missing nut. 7/11 Work order status indicates that job is complete. Maint wo328931 completed task, field verified 1/26/12.	2/8/2012	Preciado, Silvano E.	Completed